

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY

Founded by Aleš Hrdlička, 1918

MANAGING EDITOR

FRANCIS E. JOHNSTON

University of Pennsylvania
Department of Anthropology
University Museum F1
Philadelphia, Pennsylvania 19174

ASSOCIATE EDITORS

JOHN BUETTNER-JANUSCH

New York University

GLENN HAUSFATER

The University of Virginia

HENRY HARPENDING

University of New Mexico

WILLIAM HYLANDER

Duke University

LAURA NEWELL-MORRIS

University of Washington

CHARLES OXNARD

University of Chicago

ALEX ROCHE

The Fels Research Institute

PHILLIP V. TOBIAS

University of the Witwatersrand

ALAN WALKER

Harvard University

BOOK REVIEW EDITOR

EUGENE GILES

Department of Anthropology
109 Davenport Hall
University of Illinois
Urbana, Illinois 61801

FILM REVIEW EDITOR

EDWARD E. HUNT, JR.

Department of Anthropology
409 Social Sciences Building
Pennsylvania State University
University Park, Pennsylvania 16802

Official Publication of the American Association of Physical Anthropologists

VOLUME 47

JULY, SEPTEMBER, NOVEMBER

PUBLISHED BY

THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY

PHILADELPHIA, PA.

COPYRIGHT © 1977 BY
THE WISTAR INSTITUTE PRESS
All rights reserved

Contents

No. 1 JULY 1977

WILLIAM S. POLLITZER, KADAMBARI K. NAMBOODIRI, WILLIAM H. COLEMAN, WAYNE H. FINLEY, WEBSTER C. LEYSHON, GARY C. JENNINGS AND WILLIAM H. BROWN. The Cajuns of Southern Alabama: Morphology and Serology	1
RAMESH CHAUBE. Palmar Creases in Population Studies	7
G. ESWARAI AH AND R. S. BALI. Palmar Flexion Creases and Dermatoglyphics among Diabetic Patients	11
WENDY SUE SHEINE AND RICHARD F. KAY. An Analysis of Chewed Food Particle Size and Its Relationship to Molar Structure in the Primates <i>Cheirogaleus medius</i> and <i>Galago senegalensis</i> and the Insectivoran <i>Tupaia glis</i>	15
ARTHUR G. STEINBERG, THOMAS J. OLIVER AND JOHN BUETTNER-JANUSCH. Gm and Inv Studies on Baboons, <i>Papio cynocephalus</i> : Analysis of Serum Samples from Kenya Ethiopia and South Africa.	21
JEROME S. CYBULSKI. Cribra Orbitalia, a Possible Sign of Anemia in Early Historic Native Populations of the British Columbia Coast	31
MIGUEL C. MADEIRA, MARIA TEREZA G. MATHEUS, J. AMÉRICO DE OLIVEIRA AND II-SEI WATANABE. Split-line Patterns of the Mandible Following Masseterectomy in Adult and Growing Monkeys	41
HARRY ISRAEL. The Dichotomous Pattern of Craniofacial Expansion during Aging	47
DAVID S. CARLSON. Condylar Translation and the Function of the Superficial Masseter Muscle in the Rhesus Monkey (<i>M. mulatta</i>)	53
F. FACCHINI AND D. PETTENER. Chemical and Physical Methods in Dating Human Skeletal Remains	65
PAUL W. SCIULLI. A Descriptive and Comparative Study of the Deciduous Dentition of Prehistoric Ohio Valley Amerindians	71
ANTHONY J. PERZIGIAN. Fluctuating Dental Asymmetry: Variation among Skeletal Populations.	81
S. MICLE, E. KOBILYANSKY, M. NATHAN, B. ARENSBURG AND H. NATHAN. ABO-typing of Ancient Skeletons from Israel	89
<i>Brief Communications</i>	
N. S. OSSENBERG. Congruence of Distance Matrices Based on Cranial Discrete Traits, Cranial Measurements, and Linguistic-Geographic Criteria in Five Alaskan Populations.	93
JAMES A. WANNER. Variations in the Anterior Patellar Groove of the Human Femur	99
AMERICAN ASSOCIATION OF PHYSICAL ANTHROPOLOGISTS. Proceedings of the Forty-sixth Annual Meeting with Constitution, Abstracts and List of Members	103

No. 2 SEPTEMBER 1977

RICHARD J. SMITH AND HOWARD L. BAILIT. Variation in Dental Occlusion and Arches among Melanesians of Bougainville Island, Papua New Guinea. I. Methods, Age Changes, Sex Differences and Population Comparisons . . .	195
EDWARD J. BASS AND JOHN F. JACKSON. Cerumen Types in Eskimos	209
THEODORE I. GRAND. Body Weight: Its Relation to Tissue Composition, Segment Distribution, and Motor Function. I. Interspecific Comparisons	211
THEODORE I. GRAND. Body Weight: Its Relation to Tissue Composition, Segment Distribution, and Motor Function. II. Development of <i>Macaca mulatta</i>	241
MATT CARTMILL AND KATHARINE MILTON. The Lorisiform Wrist Joint and the Evolution of "Brachiating" Adaptations in the Hominoidea	249
DAVID B. BURR, DENNIS P. VAN GERVEN AND BONNIE L. GUSTAV. Sexual Dimorphism and Mechanics of the Human Hip: A Multivariate Assessment	273
JAY R. KAPLAN. Patterns of Fight Interference in Free-Ranging Rhesus Monkeys	279
BRIAN T. SHEA. Eskimo Craniofacial Morphology, Cold Stress and the Maxillary Sinus	289
SHOZO TAKAI. Principal Component Analysis of the Elongation of Metacarpal and Phalangeal Bones	301
E. LLOYD DU BRUL. Early Hominid Feeding Mechanisms	305
GUDJÓN AXELSSON AND PENTTI KIRVESKARI. The Deflecting Wrinkle on the Teeth of Icelanders and the Mongoloid Dental Complex	321
ROBERT M. BEECHER. Function and Fusion at the Mandibular Symphysis	325
F. M. SALZANO, J. V. NEEL, H. GERSHOWITZ AND E. C. MIGLIAZZA. Intra and Intertribal Genetic Variation within a Linguistic Group: the Gespeaking Indians of Brazil	337
ROBERT S. O. HARDING. Patterns of Movement in Open Country Baboons	349
<i>Brief Communications</i>	
MILDRED TROTTER AND GOLDINE C. GLESER. Corrigenda to "Estimation of Stature from Long Limb Bones of American Whites and Negroes," American Journal of Physical Anthropology (1952)	355

No. 3 NOVEMBER 1977

MILFORD H. WOLPOFF. Some Notes on the Vértesszöllös Occipital	357
PHILIP HOUGHTON. Rocker Jaws	365
JOHN BUETTNER-JANUSCH AND MARLENE SOCKOL. Genetic Studies of Free-Ranging Macaques of Cayo Santiago. I. Description of the Population and Some Nonpolymorphic Red Cell Enzymes	371
JOHN BUETTNER-JANUSCH AND MARLENE SOCKOL. Genetic Studies of Free-Ranging Macaques of Cayo Santiago. II. 6-Phosphogluconate Dehydrogenase and NADH-methemoglobin Reductase (NADH-diaphorase)	375

D. L. ANDERSON AND F. POPOVICH. Dental Reductions and Dental Caries	381
PHILIP D. GINGERICH. Homologies of the Anterior Teeth in Indriidae and a Functional Basis for Dental Reduction in Primates	387
PHILIP D. GINGERICH. Correlation of Tooth Size and Body Size in Living Hominoid Primates, with a Note on Relative Brain Size in <i>Aegyptopithecus</i> and <i>Proconsul</i>	395
PETER W. POST AND D. C. RAO. Genetic and Environmental Determinants of Skin Color	399
LETTY MOSS-SALENTIJN AND MELVIN L. MOSS. Effects of Occlusal Attrition and Continuous Eruption on Odontometry of Rat Molars	403
PAMELA DE BEER KAUFMAN. The Number of Vertebrae in the Southern African Negro, the American Negro and the Bushman (San)	409
GIOVANNI FLORIS. Presence of Correlations between the Five Palmar Area Patterns	415
H. W. GOEDDE, H. G. BENKMANN, D. P. AGARWAL AND A. KROEGER. Genetic Studies in Ecuador: Acetylase Phenotypes, Red Cell Enzyme and Serum Protein Polymorphisms of Shuara Indians	419
R. I. GARCIA, R. E. MITCHELL, J. BLOOM AND G. SZABO. Number of Epidermal Melanocytes, Hair Follicles, and Sweat Ducts in Skin of Solomon Islanders	427
W. W. SOCHA, A. S. WIENER, J. MOOR-JANKOWSKI AND C. J. JOLLY. Blood Groups of Baboons. Population Genetics of Feral Animals	435
VICTOR ESCOBAR, P. MICHAEL CONNEALLY AND CESAR LOPEZ. The Dentition of the Quechchi Indians. Anthropological Aspects	443
PATRICIA SMITH. Selective Pressures and Dental Evolution in Hominids	453
PATRICIA SMITH. Regional Variation in Tooth Size and Pathology in Fossil Hominids	459
A. JACOBSON, C. B. PRESTON, V. A. BOETTNER AND C. B. PEREIRA. The Craniofacial Pattern of the Lengua Indians of Paraguay	467
I. G. PAWSON. Growth Characteristics of Populations of Tibetan Origin in Nepal	473
QUTUB H. QAZI, HELOUISE C. MAPA AND JAMES WOODS. Dermatoglyphics of American Blacks	483
Book Reviews	489
Index to Volume 47	503

